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- **Measurement repeatability: 0.1 nm Rq**
- **Accuracies of better than 0.75%.**
- **Image from <1 nm to 5000 μm depths**
- **Z-scan at up to 4.0 μm/s with 0.1 nm height resolution**

NewView 200 is the next generation 3D imaging surface structure analyzer. Surface structure analysis is fundamental to many facets of research and industry: from semiconductors and disk drives, to printing plates and fuel injector seals, surface structure controls the performance of the product. Until now, microscopes imaged surface details while surface profilers provided accurate measurements to characterize the details. The NewView 200 combines these two critical technologies. The NewView 200 will change how you look at surfaces.

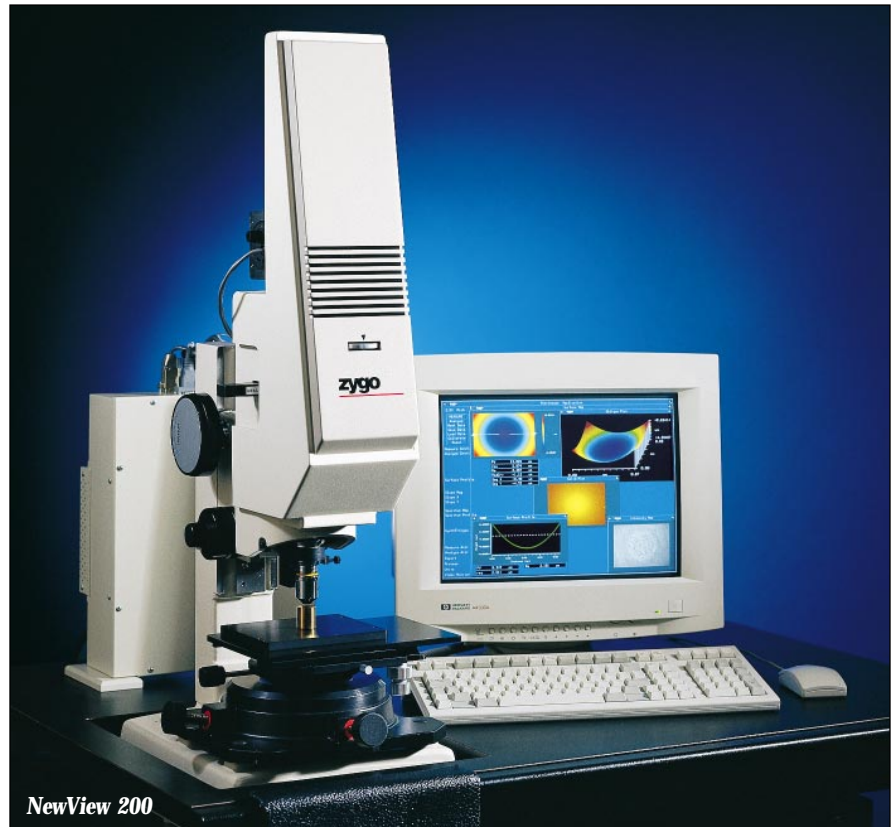
The NewView 200 is based on the NewView 100 data acquisition and analysis system, plus numerous key advances and the new industry-standard infinite conjugate Nikon optics. The NewView 200 brings you an instrument that goes beyond previously available performance while maintaining full correlation to the NewView 100 system. Like its predecessor, the NewView 200 doesn't just generate a collection of 2D profiles. It conducts advanced mathematical structure analysis, simply, on realistic 3D images. Just focus and measure.

Behind it all are Zygo traditions. Over 25 years of rock-solid surface metrology and worldwide customer satisfaction.

### **A Breakthrough In Z Imaging: Range Plus Resolution**

The NewView 200 includes all the award-winning features of the NewView 100, and more.

See even more than before. Image from <1 nm up to 5000 μm depths at up to 4.0 μm/s speeds with 0.1 nm height resolution, independent of magnification and feature height! Image parts up to 50 x 50 mm and larger with unique image stitching, or image features down to 0.5 μm.



The NewView 200 uses noncontact Scanning White Light Interferometry to build ultra-high Z-resolution images. Patented Frequency Domain Analysis and high-speed graphics then combine for next-generation 3D surface structure analysis. *Now, range and resolution are no longer a trade-off.*

More importantly, NewView 200 provides rock-solid analysis. Measurements with repeatability of 0.3 nm Rq and accuracies of better than 0.75%. As always, Zygo certifies gage capability by extensive testing and guarantees performance of each unit before shipment. The sum total? The security that your numbers mean what they say.

**Need flexibility to run a wide range of samples?** The NewView 200 is a fully integrated imaging and analytical

system. Place a part on the parcentric tip and tilt stage, with X&Y translation, which accommodates parts up to 150 mm x 150 mm x 100 mm. Software-select camera resolutions of 320 x 240 or 640 x 480. Choose objectives from 2.5X to 50X. There's also a unique continuous zoom option, from 0.5X to 2.0X.

Get all the field size and resolution you need, when you need it. Plus, all motions can be motorized.

**Need more Z resolution?** The NewView 200 can be upgraded to include Phase Measuring Interferometry to push the Z repeatability down to 0.1 nm Rq!

**Looking for an easy-to-use instrument?** NewView 200 features simple manual focus and manual or automatic illumination control. The dedicated

focus iris assures the right plane of focus even on apparently featureless surfaces, and a graphic screen display tells you when the illumination is right. Just push MEASURE. It's so easy to learn, you'll be up and running within 15 minutes of turning the instrument on for the first time.

### MetroPro Flexibility and Simplicity

MetroPro's Graphics User Interface (GUI) provides point and click simplicity right out of the box. Simple yet powerful.

As your needs change and experience grows, call on MetroPro's more advanced features. Add, move, delete, or resize plots... even change their color scale. Interactively slice the surface with linear, circular, radial or multiples cursors to visualize and measure features of interest. Add, move, or delete any result. Change its font, format, or units.

Call up specialized application programs to expand your analysis. Using the mask editor, assign material constants to regions of interest or define them as reference surfaces. MetroPro's flexibility matches your application, whether it's simple or complex.

### Production ready

The NewView 200 is production-ready, right out of the box. Start with real time, on-the-screen SPC, integrated data logging to a file or an off-line computer, and user-definable Go/NoGo Flags. All these functions are available for hundreds of reportable parameters. Your choice of dedicated function keys, or point and click instrument control, results in faster operation, less training, and fewer errors. The payoff: better data integrity, expanded understanding of your processes, and simpler overall operation.

NewView 200: "Built on a solid past for a dynamic future."



1994 - Selected by R&D magazine as "one of the 100 most significant new technical products of the year."



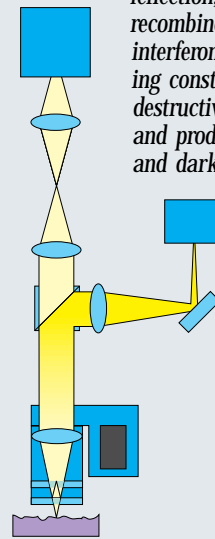
1994 - Photonics Circle of Excellence Award. Selected as one of "25 most innovative new products."

The NewView 200 offers significant performance improvements over its predecessor, the NewView 100, which won these prestigious awards.

## How it Works

The NewView 200 technology is based on interferometry. Interferometry is a traditional technique in which a pattern of bright and dark lines (fringes) result from an optical path difference between a reference and a sample beam. The mechanism is simple. Incoming light is split inside an interferometer; one beam going to an internal reference surface and the other to your sample. After

reflection, the beams recombine inside the interferometer, undergoing constructive and destructive interference and producing the light and dark fringe pattern.



## Zygo Has Many Measurement Solutions

Behind the NewView 200 are Zygo's 25 years of rock-solid metrology experience, and worldwide customer support and satisfaction.

**Maxim•GP 200** - Rapid, noncontact, surface structure analysis for smooth surfaces and steps.

**Vista** - Fully-automated noncontact detection and analysis of chips, cracks, and contaminants on magnetic head sliders, at less than 10 seconds/head!

**ZMI-2000** - Noncontact high-speed distance and angle measuring interferometer system.

**AAB System** - Provides fast, accurate, and fully-automated noncontact measurements of air-bearing surface geometry on magnetic heads. The AAB system measures all critical head parameters on over 20,000 heads/day.

**GPI Family** - Rapid noncontact measurement of surface shape and figure of precision-made surfaces, and transmitted light quality of precision optical components.

**Pegasus 2000** - Production flying height tester measures down to contact. Simultaneous n&k measurements; high throughput; safe, long-life light source.



Zygo's 100,000 square-foot Connecticut headquarters.

Data subject to change.

NewView 200, Vista, Maxim•GP 200, Pegasus 2000, ZMI-2000, GPI, and MetroPro are trademarks used by Zygo Corporation

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